

Mineral Industry Surveys

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SILICON IN MARCH 2006

Preliminary data for March 2006 indicate that both domestic production and net shipments of ferrosilicon, on a gross-weight basis, increased by 5% compared with the revised February 2006 figures of 19,400 and 16,100 metric tons (t), respectively, according to the U.S. Geological Survey. Ferrosilicon stocks in March were 20,300 t, an 18% decrease compared with revised stocks for the prior month. Data on domestic silicon metal production, net shipments, and stocks were not available at publication.

Domestic production and shipments of ferrosilicon during the first quarter of 2006 were 21% and 11% higher, respectively, than those of the fourth quarter of 2005. They were 13% higher and 2% lower, respectively, compared with those during the first quarter of 2005. All domestic data for ferrosilicon have been combined to avoid disclosing company proprietary data.

Based on a gross-weight comparison of February 2006 export data (table 2) with those of January 2006, ferrosilicon exports decreased by 13%, owing to a decrease in the ferrosilicon, more than 55% silicon, trade category. Silicon metal exports decreased by 22% primarily because of decreases in the 99.00% to 99.99% silicon and "other" silicon metal trade categories.

Based on a gross-weight comparison of February 2006 import data (table 3) with those of January 2006, ferrosilicon imports increased by 90%, owing primarily to an increase in the ferrosilicon, 55%-80% silicon, other, trade category. Silicon metal imports decreased by 46% over the same period primarily because of decreases in the 99.00%-99.99% silicon and "other" silicon metal trade categories.

Prices, cents per pound, silicon content

	50% Ferrosilicon ¹	75% Ferrosilicon ²	Silicon Metal ²
March 2	52.00-54.00	48.00-50.00	71.00-75.00
March 9	52.00-54.00	48.00-50.00	72.00-76.00
March 16	56.00-60.00	48.50-51.00	72.00-76.00
March 23	60.00-62.00	48.50-51.00	72.00-76.00
March 30	60.00-62.00	48.00-51.00	73.00-76.00

¹Source: Ryan's Notes, North American transaction price.

²Source: Platts Metals Week, dealer import price.

TABLE 1 U.S. PRODUCTION, SHIPMENTS, AND PRODUCER STOCKS OF SILICON ALLOYS AND METAL IN $2006^{1,2,3}$

(Metric tons)

_	Gross p	production ⁴	Net s	Stocks,		
Material	March	Year to date	Year to date March		March 31	
Ferrosilicon, all grades ^{5, 6}	20,400	59,900	16,900	47,500	20,300	
Silicon metal, excludes semiconductor grades	NA	NA	NA	NA	NA	

NA Not available.

 ${\it TABLE~2} \\ {\it U.S.~EXPORTS~OF~FERROSILICON~AND~SILICON~METAL~IN~FEBRUARY~2006}^{1,\,2}$

(Metric tons, unless otherwise specified)

					Year to date	
	Gross	Contained		Gross	Contained	
Country	weight	weight	Value	weight	weight	Value
Ferrosilicon:						
More than 55% silicon:						
Canada	199	120	\$221,000	572	343	\$597,000
Colombia	7	5	9,750	12	9	17,600
Malaysia	139	85	181,000	212	129	282,000
Mexico	11	8	15,600	11	8	15,600
Total	356	218	427,000	808	490	912,000
Other ferrosilicon:						
Canada	224	112	208,000	404	202	390,000
Colombia	12	6	17,600	26	12	37,100
Indonesia	8	4	9,360	8	4	9,360
Mexico	49	24	71,200	144	72	188,000
Total	292	146	306,000	582	290	624,000
Total ferrosilicon	648	364	734,000	1,390	780	1,540,000
Metal:	•					
More than 99.99% silicon:						
China	119	XX	6,310,000	207	XX	12,900,000
Finland	1	XX	36,200	22	XX	894,000
Germany	153	XX	7,900,000	367	XX	19,500,000
Italy	10	XX	929,000	23	XX	1,890,000
Japan	618	XX	49,700,000	1,220	XX	93,700,000
Korea, Republic of	96	XX	7,710,000	210	XX	16,800,000
Malaysia	6	XX	858,000	13	XX	1,890,000
Norway	163	XX	7,690,000	361	XX	18,000,000
Taiwan	39	XX	2,140,000	70	XX	4,010,000
United Kingdom	7	XX	833,000	28	XX	2,360,000
Other (26 countries)	34	XX	1,790,000	57	XX	3,020,000
Total	1,250	1,250 e	85,900,000	2,570	2,570 e	175,000,000

See footnotes at end of table.

¹Data are rounded to no more than three significant digits.

²Includes U.S. Geological Survey estimates.

³Data for silvery pig iron (less than 25% silicon) withheld to avoid disclosing company proprietary data.

⁴Includes in-plant consumption, as in production of magnesium ferrosilicon and other miscellaneous alloys.

⁵Ferrosilicon categories were aggregated to avoid disclosing company proprietary data.

⁶Includes miscellaneous silicon alloys.

 ${\it TABLE~2--Continued} \\ {\it U.S.~EXPORTS~OF~FERROSILICON~AND~SILICON~METAL~IN~FEBRUARY~2006}^{1,~2}$

(Metric tons, unless otherwise specified)

·			·		Year to date	
	Gross	Contained		Gross	Contained	
Country	weight	weight	Value	weight	weight	Value
MetalContinued:						
99.00% - 99.99% silicon:						
Belarus				34	34	\$37,700
Brazil	90	89	\$233,000	130	129	329,000
China	13	13	23,700	30	30	47,700
Costa Rica				3	2	6,010
Germany	2	2	2,790	294	291	853,000
India	52	51	150,000	52	51	150,000
Japan	3	3	4,200	15	15	15,000
Mexico				7	7	10,100
Singapore	4	4	5,490	4	4	5,490
United Kingdom	3	3	4,160	5	5	6,990
Total	167	165	424,000	573	569	1,460,000
Other silicon:						
Brazil	19	18	25,100	38	37	50,200
Canada	30	29	46,300	51	50	75,600
China				45	44	60,000
Germany				7	7	18,200
Italy	12	12	16,000	12	12	16,000
Japan	116	113	153,000	135	131	234,000
Korea, Republic of	278	270	367,000	873	848	1,150,000
Mexico	31	30	66,400	38	37	93,500
Netherlands	22	21	113,000	48	45	414,000
Taiwan	14	13	18,300	14	13	18,300
Other (2 countries)	7	6	78,300	7	6	78,300
Total	528	512	883,000	1,270	1,230	2,210,000
Total silicon metal	1,940	1,920	87,200,000	4,420	4,370	179,000,000

^eEstimated. XX Not applicable.

Source: U.S. Census Bureau.

¹Presentation of monthly data is based on the year-to-date quantities (gross weight) of the top 10 countries.

²Data are rounded to no more than three significant digits; may not add to totals shown.

TABLE 3 U.S. IMPORTS FOR CONSUMPTION OF FERROSILICON AND SILICON METAL IN FEBRUARY $2006^{1,\,2}$

(Metric tons, unless otherwise specified)

					Year to date	
	Gross	Contained		Gross	Contained	
Country	weight	weight	Value	weight	weight	Value
Ferrosilicon:						
55% - 80% silicon, over 3% Ca:						
Brazil				20	13	\$24,500
China				2	1	2,780
Total				22	14	27,300
55% - 80% silicon, Other:						
Brazil	20	14	\$13,600	1,590	1,180	1,120,000
Canada	643	494	660,000	1,640	1,250	1,550,000
China	8,740	6,630	5,430,000	11,700	8,900	7,270,000
France	416	280	715,000	949	635	1,770,000
Germany	 65	48	291,000	82	61	375,000
Norway	492	368	635,000	956	715	1,310,000
Russia	3,360	2,520	1,810,000	6,860	5,140	3,870,000
South Africa	1,270	944	718,000	1,270	944	718,000
United Kingdom		12	63,900	18	12	63,900
Venezuela	5,030	3,770	3,070,000	5,030	3,770	3,070,000
Other (Kazakhstan)		2 3		12	2 3	7,300
Total	20,100	15,100	13,400,000	30,100	22,600	21,100,000
More than 90% silicon, China		19	6,300	21	19	6,300
Magnesium ferrosilicon:			0,500			0,500
Argentina	138	61	128,000	334	149	318,000
Canada	694	320	705,000	1,350	625	1,350,000
France	143	67	127,000	539	251	468,000
Germany			127,000	18	10	30,700
India				20	9	18,000
Japan				32	15	50,400
Netherlands				82	38	60,200
Norway	845	389	741,000	1,470	679	1,330,000
Russia	2,100	943	854,000	2,100	943	854,000
South Africa		7 4 3	854,000	19	9	21,400
Other (2 countries)	130	59	123,000	299	135	285,000
Total	4,040	1,840	2,680,000	6,260	2,860	4,790,000
Other ferrosilicon:	4,040	1,040	2,080,000	0,200	2,800	4,790,000
Brazil		4	22.700	26	4	32,700
	_ 26		32,700	26	4	
Canada	730	178	623,000	1,440	367	1,230,000
India			2.200	71	31	59,700
United Kingdom	1	1 100	2,280	1.520	1 102	2,280
Total	757	182	658,000	1,530	403	1,320,000
Total ferrosilicon See footnotes at end of table.	24,900	17,100	16,800,000	37,900	25,900	27,300,000

See footnotes at end of table.

TABLE 3--Continued U.S. IMPORTS FOR CONSUMPTION OF FERROSILICON AND SILICON METAL IN FEBRUARY $2006^{1,\,2}$

(Metric tons, unless otherwise specified)

					Year to date	
	Gross	Contained		Gross	Contained	
Country	weight	weight	Value	weight	weight	Value
Metal:					-	
More than 99.99% silicon:	•					
Belgium		XX		5	XX	\$42,900
China	1	XX	\$101,000	3	XX	435,000
Dominican Republic		XX		3	XX	6,530
France	4	XX	369,000	7	XX	652,000
Germany	64	XX	4,630,000	142	XX	10,000,000
Italy	18	XX	1,350,000	46	XX	3,090,000
Japan	25	XX	2,120,000	53	XX	4,410,000
Korea, Republic of	4	XX	636,000	7	XX	1,090,000
Sweden		XX		8	XX	54,300
Taiwan	3	XX	181,000	3	XX	181,000
Other (5 countries)	. 2	XX	72,900	4	XX	123,000
Total	121	121 e	9,470,000	280	280 e	20,100,000
99.00% - 99.99% silicon:						
Australia	1,120	1,110	1,760,000	1,620	1,610	2,550,000
Brazil	2,540	2,520	3,750,000	5,960	5,920	8,840,000
Canada	1,040	1,030	1,700,000	3,310	3,280	5,380,000
Norway	487	484	1,020,000	828	823	1,720,000
Philippines	125	124	125,000	179	177	189,000
South Africa	1,210	1,200	1,860,000	5,420	5,380	7,370,000
Sweden				1	1	7,760
United Kingdom	35	10	94,900	35	10	99,800
Total	6,560	6,490	10,300,000	17,300	17,200	26,200,000
Other silicon:		·				
Belgium	7	7	21,000	14	13	41,500
Brazil	139	137	180,000	1,600	1,580	2,440,000
Canada	545	529	869,000	1,230	1,180	1,620,000
Japan				7	7	21,000
Norway				1,000	985	1,550,000
Sweden	. 8	(4)	8,760	16	(4)	18,000
Ukraine	332	327	390,000	615	606	720,000
United Kingdom	60	59	94,000	60	59	94,000
Total	1,090	1,060	1,560,000	4,540	4,430	6,500,000
Total silicon metal	7,770	7,670	21,300,000	22,200	21,900	52,800,000
					,	

^eEstimated. XX Not applicable.

Source: U.S. Census Bureau.

¹Presentation of monthly data is based on the year-to-date quantities (gross weight) of the top 10 countries.

²Data are rounded to no more than three significant digits; may not add to totals shown. ³All or part of these data have been referred to the U.S. Census Bureau for verification.

⁴Less than ½ unit.